

TEST FOR SOL-GEL ON ALUMINUM RIVETS

ABSTRACT OF THE DISCLOSURE

5 A method for testing for the presence of sol-gel on an aluminum test specimen includes: preparing an ammonium molybdate solution; preparing a hydrochloric acid solution; and mixing the solutions in 2:1 ratio in each of a number of receptacles. A test specimen of unknown coating, a first control specimen, and a second control specimen are placed in the mixed solution in
10 three receptacles. The first control specimen has a sol-gel coating over an alodine coating; and the second control specimen has an alodine only coating. By timing events such as a change in color of the test and control specimens or the solution becoming opaque, the method determines that the test specimen of unknown coating has a like coating to that of a particular one of the control
15 specimens if the timing of the event of the test specimen and the timing of the event of the particular control specimen are comparable.